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TITLE: SURFACE ACOUSTIC WAVE FILTER

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APPL-NO: JP05048055

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ABSTRACT:

PURPOSE: To realize a small loss and a large extent of out-band attenuation by constituting a surface acoustic wave filter of an one-post surface acoustic wave resonator and a surface two-ports acoustic wave resonator.

CONSTITUTION: A surface acoustic wave resonator 4 to one terminal has such impedance characteristic that the impedance is 0 in the case of a resonance frequency f_r and is infinite in the case of an antiresonance frequency f_a . Consequently, the electric signal from an input terminal 6 passes an output terminal 7 in the case of the frequency f_r but does not pass it at all in the case of the frequency f_a to generate an attenuation pole when resonators 4 are connected in series to constitute a circuit to two terminals. Meanwhile, a surface acoustic wave resonator 5 to two terminals generates a spurious wave in a high band-side vicinity f_s of the pass band. However, the spurious wave of the resonator 5 is cancelled by the attenuation pole of the resonator 4 to increase the extent of out-band attenuation because resonators 4

and 5 are cascade connected and are so constituted that frequencies f_a and f_s are equal to each other. Further, the pass band of the resonator 5 is equalized to the frequency f_r of the resonator 4 to reduce the insertion loss in comparison with multistage connection of resonators 5.

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